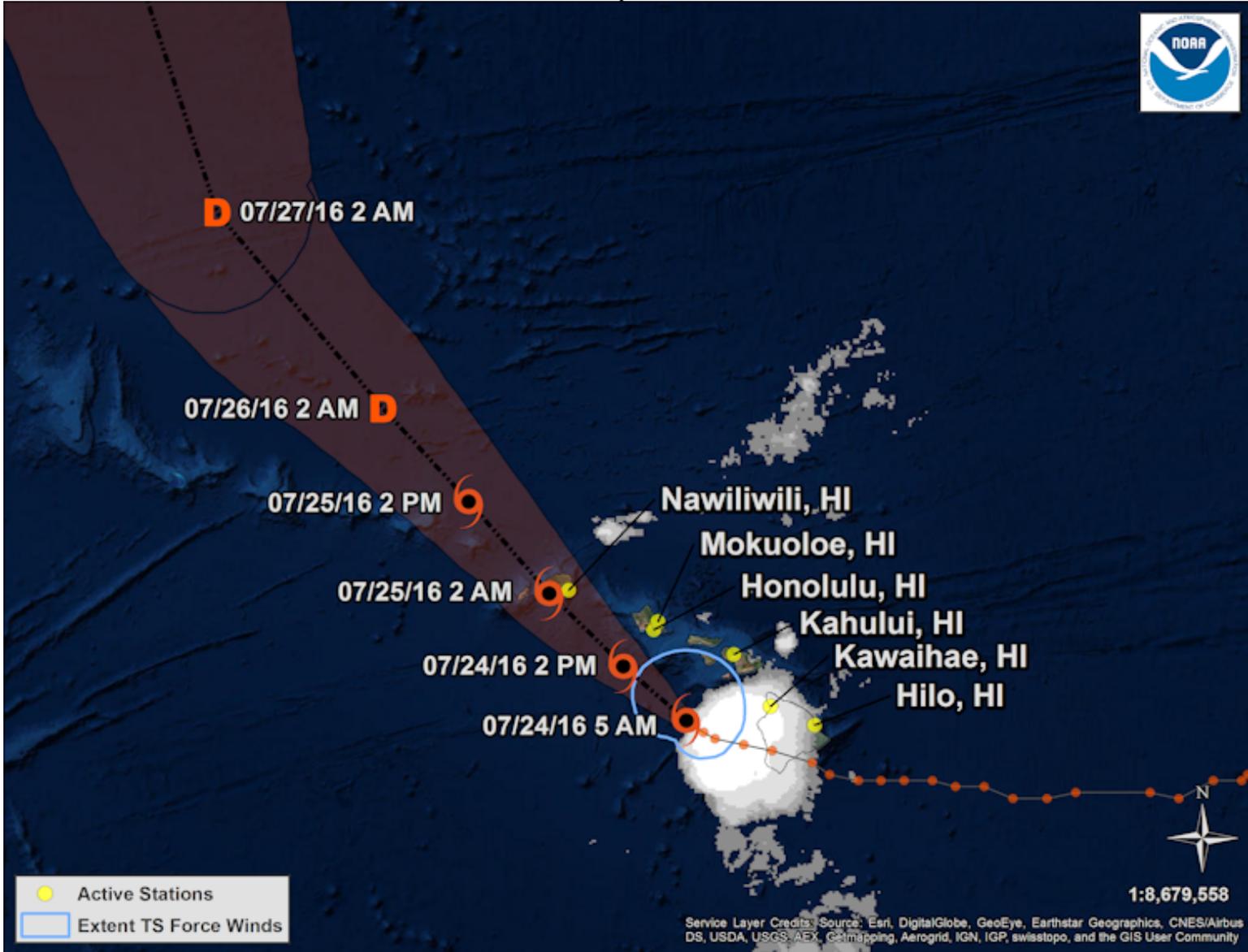




Tropical Storm DARBY QuickLook  
Posted: 06:00 HST 07/24/2016

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 07/24/2016 06:00 HST, water levels across the Hawaiian Islands are slightly elevated but remain below 0.5 feet above normal tide levels. Winds are presently less than 10 knots at most stations across the region, with the exception of Mokuoloe, where winds range from 15-20 kts with slightly higher gusts. Barometric pressure has leveled off or is now rising from the island of Hawaii to Molokai but continues to slowly fall from Oahu westward.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: PFF

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SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM DARBY ADVISORY NUMBER 52  
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI EP052016  
500 AM HST SUN JUL 24 2016

...DARBY MOVING NORTHWESTWARD TOWARD OAHU AND KAUAI...

SUMMARY OF 500 AM HST...1500 UTC...INFORMATION

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LOCATION...19.8N 157.3W  
ABOUT 110 MI...180 KM SSE OF HONOLULU HAWAII  
ABOUT 205 MI...330 KM SE OF LIHUE HAWAII  
MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H  
PRESENT MOVEMENT...WNW OR 300 DEGREES AT 9 MPH...15 KM/H  
MINIMUM CENTRAL PRESSURE...1004 MB...29.65 INCHES

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

A Tropical Storm Watch has been issued for portions of the Papahanaumokuakea Marine National Monument...from Nihoa Island to French Frigate Shoals.

The Tropical Storm Watch has been cancelled for the Big Island of Hawaii.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

\* All islands in the state of Hawaii, except the Big Island.

A Tropical Storm Watch is in effect for...

\* Papahanaumokuakea Marine National Monument...from Nihoa Island to French Frigate Shoals.

A Tropical Storm Warning means that tropical storm conditions are imminent or already occurring. In this case, Tropical Storm conditions are expected over Maui County and Oahu today through tonight, and over Kauai late tonight and Monday.

A Tropical Storm Watch means that Tropical Storm conditions are possible within the watch area...generally within

36 to 48 hours.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu Hawaii.

#### DISCUSSION AND 48-HOUR OUTLOOK

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At 500 AM HST (1500 UTC), the center of Tropical Storm Darby was located near latitude 19.8 North, longitude 157.3 West. Darby is moving toward the west-northwest near 9 mph (15 km/h) and this general motion is expected to continue over the next 48 hours.

Maximum sustained winds are near 40 mph (65 km/h) with higher gusts. Little change in strength is forecast through Monday, with slow weakening Monday night.

Tropical-storm-force winds extend outward up to 80 miles (130 km) from the center.

The estimated minimum central pressure is 1004 mb (29.65 inches).

#### HAZARDS AFFECTING LAND

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WIND: Tropical Storm force winds are expected over parts of Maui County and Oahu through tonight, and over Kauai late tonight and Monday.

SURF: Swells generated by Darby are impacting the Hawaiian Islands, and will continue through tonight before diminishing on Monday.

RAINFALL: Storm total rainfall of 6 to 10 inches, with isolated amounts of up to 15 inches. These rains could produce life-threatening flash floods and landslides.

#### NEXT ADVISORY

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Next intermediate advisory at 800 AM HST.

Next complete advisory at 1100 AM HST.

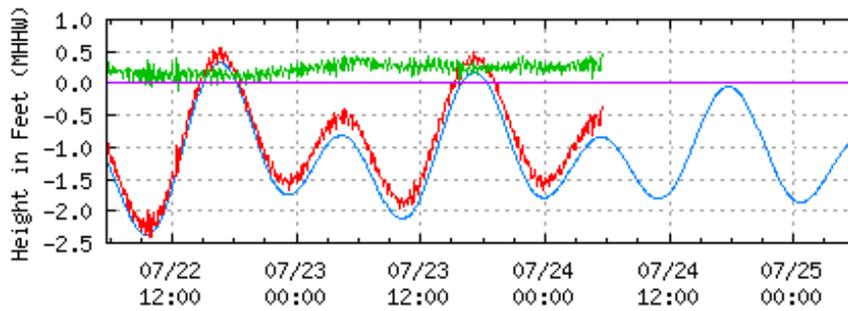
\$\$

Forecaster Houston/Jelsema

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#)

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— (blue line)  
Observed WL ——— (red line)  
(Obs-Pred) ——— (green line)  
MHHW ——— (purple line)

Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW

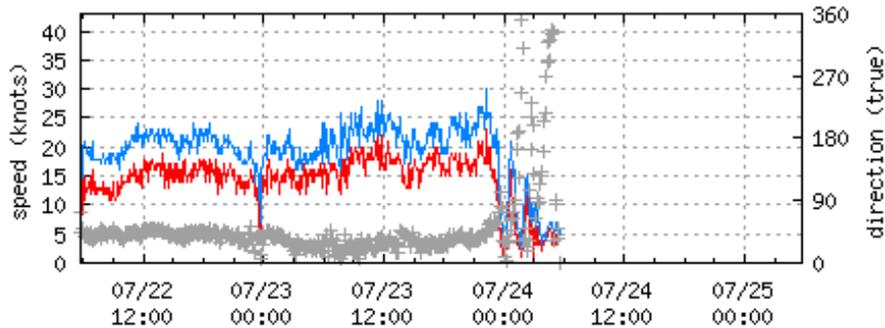
Observed: -0.38 ft. Predicted: -0.84 ft. Residual: 0.46 ft.

Historical Maximum Water Level: Dec 20 1968, 1.23 ft.

Next High Tide: 07/24/2016 17:45 (HST), -0.05 ft.

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Wind Speed / Gusts / Direction

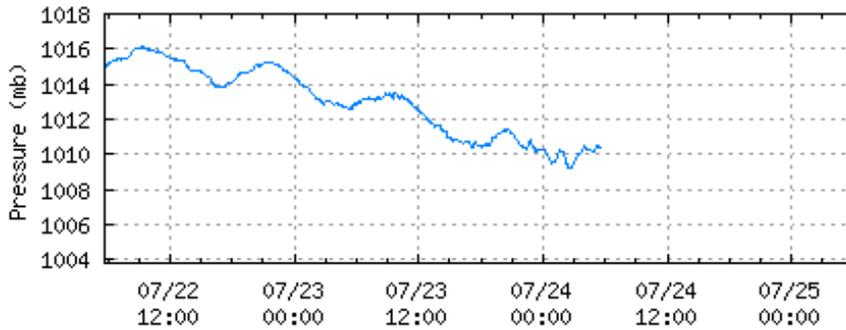


speed ——— (red line)      gusts ——— (blue line)      direction +

Last Observed Sample: 07/24/2016 05:30 (HST)

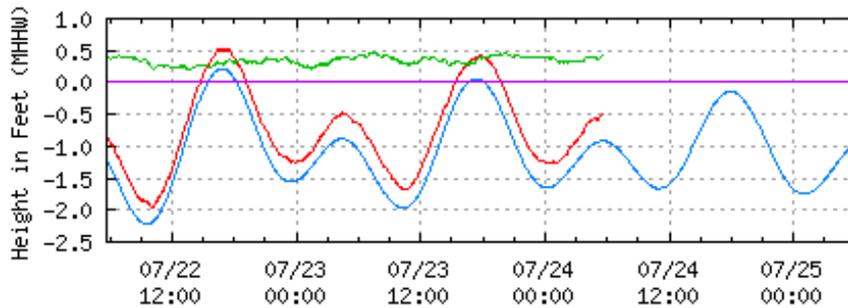
Wind Speed: 4 knots Gusts: 5 knots Direction: 1° T

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1010.4 mb

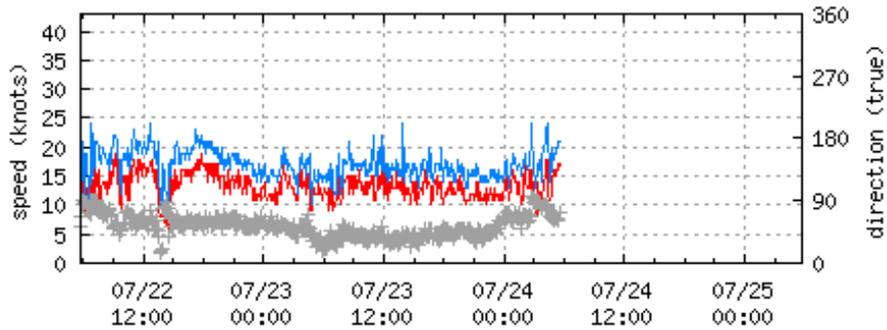
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

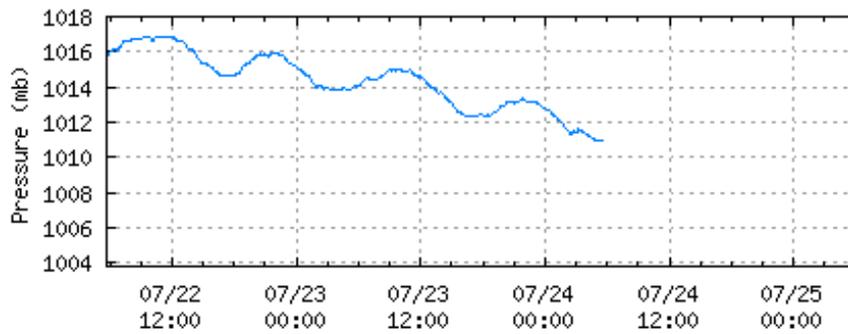
Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW  
Observed: -0.50 ft. Predicted: -0.92 ft. Residual: 0.42 ft.  
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.  
Next High Tide: 07/24/2016 05:35 (HST), -0.92 ft.

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Wind Speed / Gusts / Direction



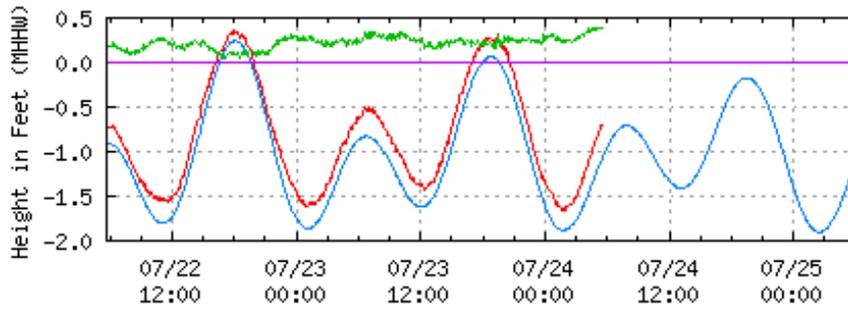
speed — gusts — direction +  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Wind Speed: 17 knots Gusts: 21 knots Direction: 72° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1010.9 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
 Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

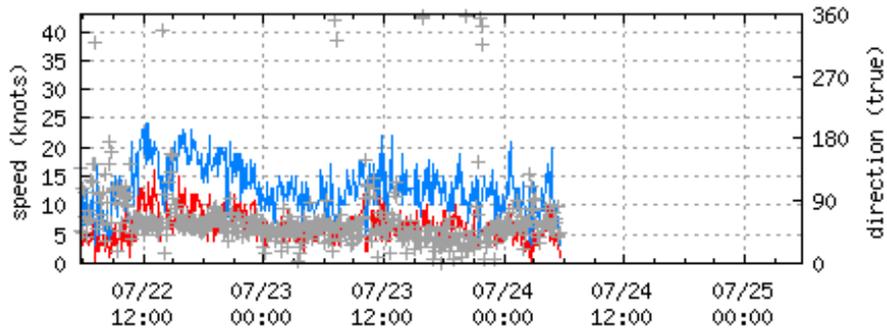
Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW

Observed: -0.70 ft. Predicted: -1.08 ft. Residual: 0.38 ft.

Historical Maximum Water Level: Feb 14 1967, 1.49 ft.

Next High Tide: 07/24/2016 07:55 (HST), -0.71 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
 Wind Speed / Gusts / Direction

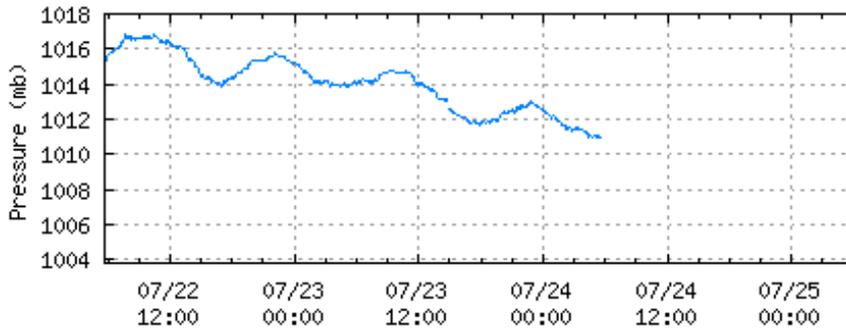


speed ——— gusts ——— direction +

Last Observed Sample: 07/24/2016 05:30 (HST)

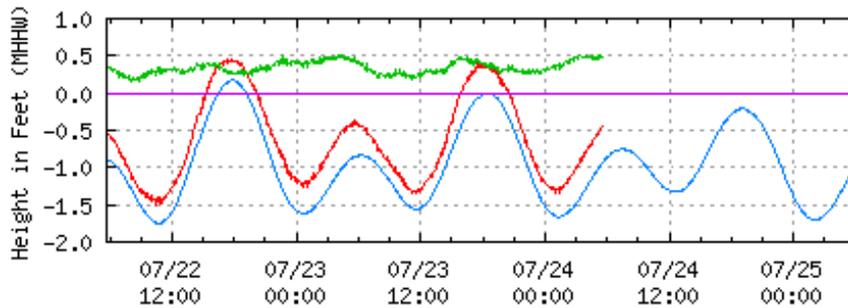
Wind Speed: 1 knots Gusts: 3 knots Direction: 43° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1010.9 mb

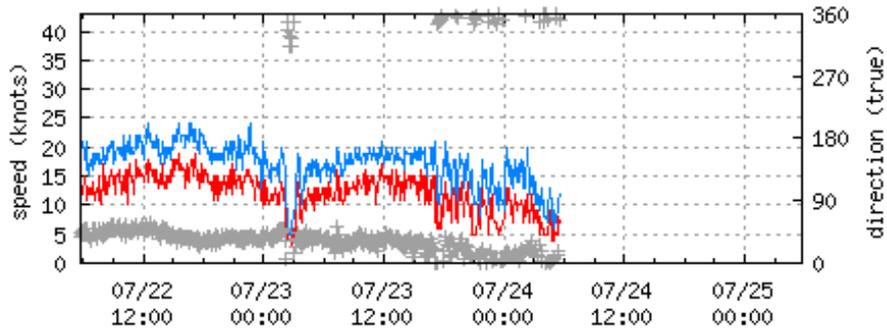
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

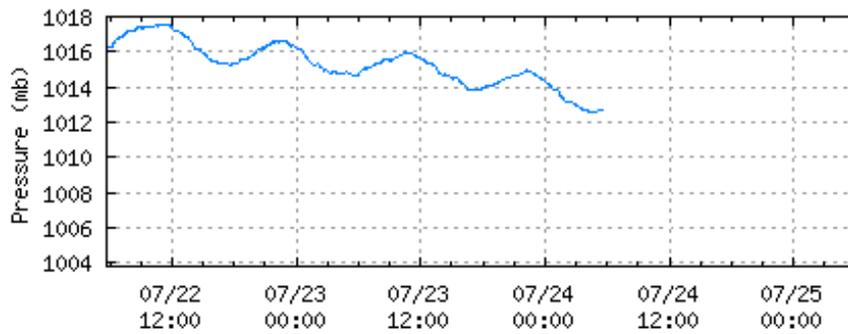
Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW  
Observed: -0.45 ft. Predicted: -0.94 ft. Residual: 0.49 ft.  
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.  
Next High Tide: 07/24/2016 07:30 (HST), -0.75 ft.

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Wind Speed / Gusts / Direction



speed — gusts — direction +  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Wind Speed: 7 knots Gusts: 12 knots Direction: 352° T

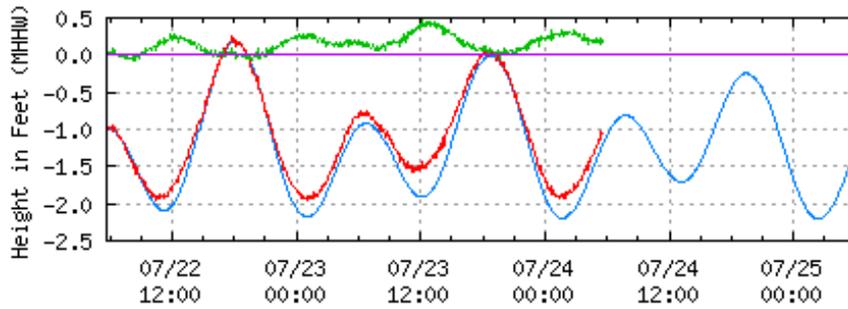
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI  
Barometric Pressure



barometric pressure —

Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1012.7 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— (Obs-Pred) ———  
Observed WL ——— MHHW ———

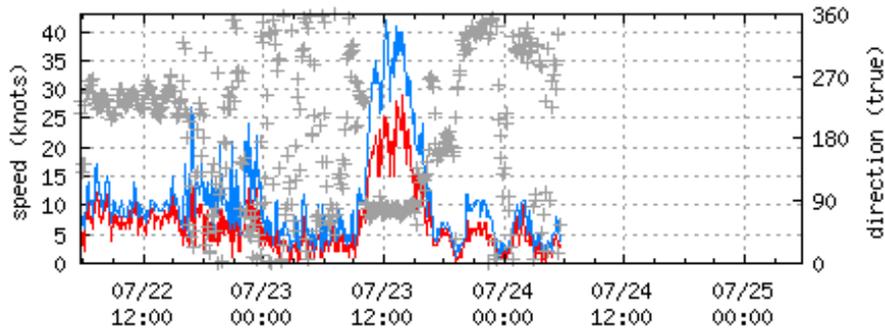
Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW

Observed: -1.05 ft. Predicted: -1.22 ft. Residual: 0.17 ft.

Historical Maximum Water Level: Dec 13 2008, 1.22 ft.

Next High Tide: 07/24/2016 07:49 (HST), -0.82 ft.

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Wind Speed / Gusts / Direction

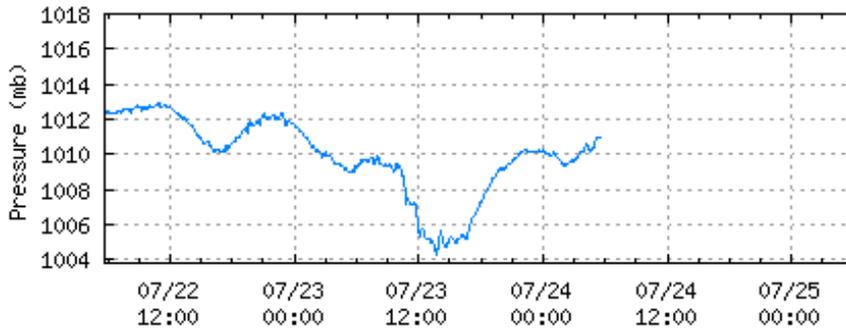


speed ——— gusts ——— direction +

Last Observed Sample: 07/24/2016 05:30 (HST)

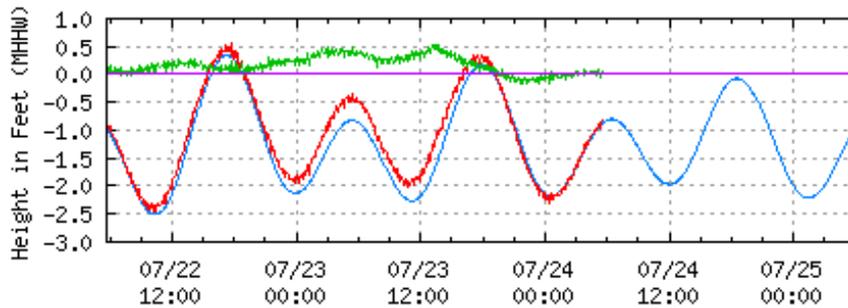
Wind Speed: 3 knots Gusts: 4 knots Direction: 57° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1010.9 mb

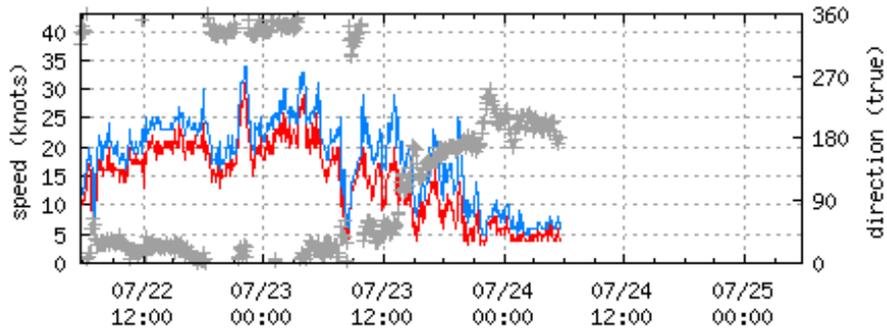
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

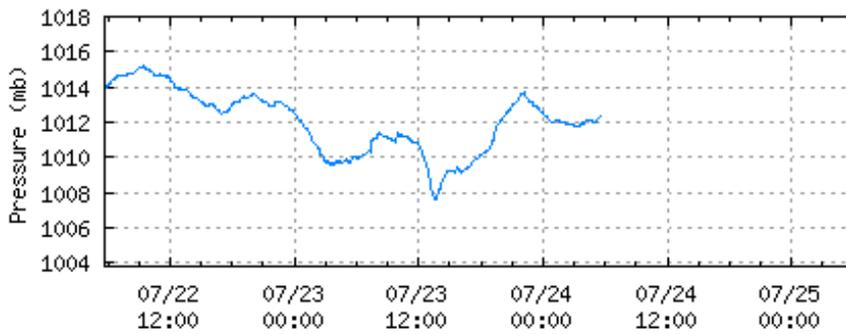
Last Observed Sample: 07/24/2016 05:30 (HST). Data relative to MHHW  
Observed: -0.83 ft. Predicted: -0.89 ft. Residual: 0.06 ft.  
Historical Maximum Water Level: Jan 20 1981, 1.37 ft.  
Next High Tide: 07/24/2016 06:27 (HST), -0.80 ft.

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI  
Wind Speed / Gusts / Direction



speed — gusts — direction +  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Wind Speed: 4 knots Gusts: 6 knots Direction: 181° T

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 07/24/2016 05:30 (HST)  
Barometric Pressure: 1012.3 mb

Latest Water Level Observations on MHHW

<b>Station ID</b>	<b>Station Name</b>	<b>Date/Time</b>	<b>Observed Water Level</b>	<b>Predicted Tide</b>	<b>Residual Water Level</b>	<b>24 Hour Maximum Storm Tide</b>
1615680	Kahului, Kahului Harbor, HI	07/24/2016 05:30 (HST)	-0.38 ft	-0.84 ft	0.46 ft	0.49 ft
1612480	Mokuoloe, HI	07/24/2016 05:30 (HST)	-0.50 ft	-0.92 ft	0.42 ft	0.42 ft
1612340	Honolulu, HI	07/24/2016 05:30 (HST)	-0.70 ft	-1.08 ft	0.38 ft	0.31 ft
1611400	Nawiliwili, HI	07/24/2016 05:30 (HST)	-0.45 ft	-0.94 ft	0.49 ft	0.41 ft
1617433	Kawaihae, HI	07/24/2016 05:30 (HST)	-1.05 ft	-1.22 ft	0.17 ft	0.08 ft
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	07/24/2016 05:30 (HST)	-0.83 ft	-0.89 ft	0.06 ft	0.36 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce